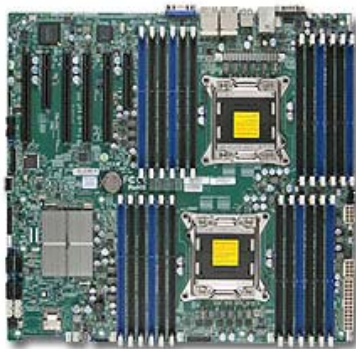


X9DRi-LN4F+

Products ▶ Motherboards ▶ Xeon® Boards ▶ [X9DRi-LN4F+]



Key Features

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and **E5-2600 v2** family†
2. Intel® C602 chipset; QPI up to 8.0GT/s
3. Up to 1.5TB ECC DDR3, up to 1866MHz;
24x DIMM sockets
* Depends on memory configuration
4. Expansion slots: 4 x16 PCI-E 3.0, 1 x8 PCI-E 3.0, 1 x4 PCI-E 3.0 (in x8)
5. 4x Gigabit Ethernet LAN ports; Intel® i350 GbE controller
6. 8x SATA2 and 2x SATA3 ports
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. 9x USB 2.0 ports (4 rear, 4 via header + 1 Type A)

Links & Resources

- ▶ [Tested Memory List](#)
- ▶ [Tested HDD / SSD List](#)
- ▶ [Motherboard Manual](#)
- ▶ [Update Your BIOS](#)
- ▶ [IPMI Firmware](#)
- ▶ [Download the Latest Drivers and Utilities](#)
- ▶ [Heat Sink Compatibility](#)
- ▶ [OS Compatibility](#)

Specifications

Product SKUs	
MBD-X9DRi-LN4F+ -B	▪ X9DRi-LN4F+ (Bulk Pack)
Physical Stats	
Form Factor	▪ Enhanced Extended ATX
Dimensions	▪ 13.68" x 13" (34.7cm x 33cm)
Processor/Cache	
CPU	▪ Dual Socket R (LGA 2011) ▪ Intel® Xeon® processor E5-2600 and E5-2600 v2 family† (up to 135W TDP **)
Note	† BIOS version 3.0 or above is required
Note	** Motherboard supports this maximum TDP. Please verify your system can thermally support.
Cache	▪ Up to 30MB
System Bus	▪ QPI up to 8 GT/s
System Memory	
Memory Capacity	▪ 24x 240-pin DDR3 DIMM sockets ▪ Up to 1.5TB DDR3 ECC LRDIMM ▪ Up to 768GB DDR3 ECC RDIMM ▪ Up to 128GB DDR3 ECC/non-ECC UDIMM
Memory Type	▪ 1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs ▪ Support ECC and non-ECC UDIMMs
DIMM Sizes	▪ 32GB, 16GB, 8GB, 4GB, 2GB, 1GB, 64GB LRDIMM
Memory Voltage	▪ 1.5 V, 1.35 V
Error Detection	▪ Corrects single-bit errors ▪ Detects double-bit errors (using ECC memory)
On-Board Devices	
Chipset	▪ Intel® C602 chipset

Chassis (Optimized for X9DRi-LN4F+)	
2U Chassis	▪ CSE-825TQ-R740LPB ▪ CSE-826E16-R920LP
3U Chassis	▪ CSE-835TQ-R920B ▪ CSE-836BA-R920B
Tower / 4U Rackmount	▪ CSE-745TQ-R920B ▪ CSE-846BE16-R920B ▪ CSE-847E16-R1K28LPB
Important Chassis Notes	▪ To support the new generation Intel® Xeon® processor-based motherboards, Revision M chassis is recommended. Please talk to your sales representative for details. ▪ Please use optional I/O shield MCP-260-00041-0N in Supermicro 1U chassis
SuperServer(s) with X9DRi-LN4F+	
Model(s)	▪ SSG-6027R-E1R12N ▪ SSG-6037R-E1R16N ▪ SSG-6047R-E1R24N ▪ SSG-6047R-E1R36N ▪ SSG-6027R-E1CR12N ▪ SSG-2027R-E1CR24N ▪ SSG-2027R-E1R24N
Expansion Slots	
PCI-Express	▪ 4 (x16) PCI-E 3.0 slots ▪ 1 (x8) PCI-E 3.0 slot ▪ 1 (x4) PCI-E 3.0 (in x8) slot (Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram for details.)
System BIOS	
BIOS Type	▪ 128Mb SPI Flash EEPROM with AMI BIOS ▪ Plug and Play (PnP) ▪ APM 1.2

AHCI SATA	<ul style="list-style-type: none"> SATA 2.0 3Gbps with RAID 0, 1, 5, 10 SATA 3.0 6Gbps with RAID 0, 1, 5, 10
SCU SATA	<ul style="list-style-type: none"> SATA 2.0 3Gbps with RAID 0, 1, 5, 10
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support Nuvoton WPCM450 BMC
Network Controllers	<ul style="list-style-type: none"> Intel® i350 Gigabit Ethernet (x4 ports) Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1x Realtek RTL8201N PHY (dedicated IPMI)
Video	<ul style="list-style-type: none"> Matrox G200eW
Input / Output	
AHCI SATA	<ul style="list-style-type: none"> 2x SATA 3.0 ports (6Gbps) 4x SATA 2.0 ports (3Gbps)
SCU SATA	<ul style="list-style-type: none"> 4x SATA 2.0 ports (3Gbps)
LAN	<ul style="list-style-type: none"> 4 RJ45 Gigabit Ethernet LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 9 USB 2.0 ports total (4 rear + 4 via header + 1 Type A)
Video	<ul style="list-style-type: none"> 1 VGA port
Serial Port / Header	<ul style="list-style-type: none"> 2 Fast UART 16550 ports: 1 rear and 1 header
DOM	<ul style="list-style-type: none"> 1 DOM (Disk on Module) power connector
TPM	<ul style="list-style-type: none"> 1 TPM 1.2 20-pin Header

BIOS Features	<ul style="list-style-type: none"> PCI 2.3 ACPI 1.0 / 2.0 / 3.0 / 4.0 USB Keyboard support SMBIOS 2.7.1 UEFI 2.3.1
Management	
Software	<ul style="list-style-type: none"> SuperDoctor® III Watch Dog NMI IPMI 1.5 / 2.0
Power Configurations	<ul style="list-style-type: none"> ACPI / APM Power Management Power-on mode for AC power recovery
PC Health Monitoring	
Voltage	<ul style="list-style-type: none"> Monitors for CPU Cores, +1.1V, +1.5V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory Voltages. 6+1 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> 8x 4-pin fan headers (up to 8 fans) 8x fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support Thermal Control for 8x Fan Connectors Thermal Monitor 2 (TM2) support PECI
LED	<ul style="list-style-type: none"> CPU / System Overheat LED Suspend static indicator LED UID/Remote UID
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header RoHS, Halogen Free
Operating Environment	
Operating Temperature Range	<ul style="list-style-type: none"> 10°C - 35°C (50°F - 95°F)
Non-Operating Temperature Range	<ul style="list-style-type: none"> -40°C - 70°C (-40°F - 158°F)
Operating Relative Humidity Range	<ul style="list-style-type: none"> 8% - 90% (non-condensing)
Non-Operating Relative Humidity Range	<ul style="list-style-type: none"> 5% - 95% (non-condensing)

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

Parts List

Parts List (retail)			
	Part Number	Qty	Description
X9DRi-LN4F+	MBD-X9DRi-LN4F+	1	X9DRi-LN4F+ Motherboard
I/O Cables	CBL-0044L	2	SATA CABLE 61CM FLAT S-S PBF
I/O Cables	CBL-0097L-03	1	30AWG 50CM Ipass to 4 SATA, W/50cm SB, S
I/O Shield	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket.

Optional Parts List			
	Part Number	Qty	Description
Heat Sink (optional, not included)	-	-	CPU Heat Sink reference
TPM security module (optional, not included)	AOM-TPM-9655V or AOM-TPM-9655H	-	TPM module with Infineon 9655, RoHS/REACH,PBF; Vertical or Horizontal depends on the server

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